



570
August
2013

HF Happenings

South African Radio League * Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union since 1925
www.sarl.org.za www.iau.org www.iau-r1.org



Noise Floor Study

Gwyn Williams, G4FKH, says, "It was announced on 25 August 2013, that the RSGB's legacy committee has agreed a submission for funds to advance the above study. You will remember a couple of months ago I updated you on my PSC HF Noise Measuring Campaign and my articles in Rad-Com.

The new funds will allow an extension to the original Campaign, which is to be titled 'Noise Floor Study', and will include university involvement. To read the RSGB announcement look at <http://rsgb.org/main/technical/propagation/noise-floor-study/>, this carries a link to my web site for further information on my Campaign.

To further the Campaign, part of this initiative requires more input devices scattered around the U.K. The suggested receiver is the Sentinel SDR Receiver and an active aerial, both sold by Cross Country Wireless.

Ideally, there should be at least one receiver in a quiet/Rural location, so that comparisons can be made with more noisy locations, and as a basis for final analysis. One of the reasons why more receiver's are not in the field right now I guess is, the price; both the receiver and the aerial cost around £169.00 each plus P+P. The controlling software runs on Windows XP or Windows 2000, so older PCs/Laptops can be utilised. Perhaps groups such as affiliated societies could consider purchasing the units, to install and maintain them as a group project.

As part of the legacy funding, a web site will be established to at least display the Sentinel reported noise levels on 5 different QRG's, each site will report their readings every 10 minutes. The display will be in the form of a UK map with the receiver sites marked at the correct location with the readings. There may be other outputs, which are in the discussion process.

All that is needed is more data gathering receiver's in all sorts of noise environments, to advance Radio Amateur's in the general public's and scientific communities, ethos. Participation will also provide those participants with another fulfilment of the licence, and that is the gaining of knowledge through the study of the radio environment."

Collins' Special Event

Members of the various Rockwell Collins Amateur Radio Clubs in various locations will be active during the last to weekends of September (21 to 23 September and 28 to 30 September), to celebrate the 80th year anniversary of the incorporation of Collins Radio. Look for the following stations to will participate: N0CXX Cedar Rapids, IA, W0CXX Cedar Rapids, IA, W5ROK Richardson, TX, W4CRC Melbourne, FL and W6CXX Tustin, CA.

(Continued on page 2)

Have YOU done anything today to Promote Amateur Radio?

August

16 to 18 - National Watersports Show and Dive Expo, Randburg
18 - SARL HF Digital Contest
17 and 18 - International Lighthouse and Lightship Weekend
23 to 25 - Tokyo Ham Fair
25 - SARL HF CW Contest
29 to 31 - Boertjie Kontreifes, Bultfontein
30 and 31 - Hantam Vleisfees, Calvinia
29 Aug to 8 Sep - Clanwilliam Wildflower Show
31 - RTA in Gauteng

September

4 - Secretary's Day
5 and 6 - Rosh Hashanah
6 - Casual Day
7 and 8 - IARU Region 1 SSB Field Day; RSGB SSB Field Day
12 - Closing date for October RAE
14 - Yom Kippur
20 - Schools close
20 to 22 - Maloti Makiti, Fouriesburg
21 and 22 - SARL VHF/UHF Contest
22 - Spring Equinox
23 to 27 - IARU Region 2 General Conference, Cancun, Mexico
24 - Heritage Day; SARL Heritage Day Sprint
26 to 29 - Hermanus Flower Festival
28 and 29 - CW WW RTTY Contest



Current Summits-on-the-Air (SOTA) activities are announced at

www.sotawatch.org

And more SOTA information can be found at www.sota.org.uk



HF Happenings

Operations will begin from 9:00 AM to midnight "local time" for each station, based on operator availability. A special QSL card for the event is available for all stations (same design). A certificate is available for those who working 3 or more club stations on any combination of band/mode. All QSL and certificate requests for ALL stations will be handled through N3SL. Operations will be on non-WARC bands only. On CW, listen for "CQ CR80". On SSB, listen for "CQ Collins Radio 80th Anniversary Special Event". For more details on the operation and QSL instructions, see <http://www.w0cxx.org>

Propagation and the Reverse Beacon Network

Guy K2AV found a particularly interesting view of propagation provided by the Reverse Beacon Network (RBN) <http://reversebeacon.net/> watching a particular signal over an entire contest. The results document the propagation modes changing, particularly if conditions are quiet. He presents an example recorded during the 2011 ARRL DX CW contest on 40 meters when multi-multi stations were all calling CQ consistently. Start by logging on to the RBN's analysis page <http://www.reversebeacon.net/analysis/>. "Enter 19/02/2011 as the date. Click on the Europe bar. When the station selection expands, click on S5ØARX. Enter NY4A, W3LPL, and K3LR under stations. Look at the 40 metre spots. On the right side of the graph for the...day, Saturday evening was for propagation one of those wide open very "smooth" propagation evenings analogous to reflections off a lake on a windless day. In particular, starting around 19:00 UTC or so, see how NY4A's strength goes through three jumps up to a plateau. You can see that LPL and LR climb them as well. These plateaus follow the propagation changing modes (numbers of hops and angle) as the band opens into the evening. Note that the NY4A 5-element long quad (at 25 metres centre height, over 55 metres of catenary) engages all three modes cleanly and fully as they open, without any fading. If the path to EU from NY4A is cleanly open, the path must be open from LPL and LR distances. By common expectation LPL and LR should have a propagation advantage over NY4A. LPL and LR both have excellent stacked 3 or 4 element 40 m Yagis. But note how as the fourth mode is engaged, both LR and LPL fall off because they are not cleanly engaging the mode, most likely because the increasing elevation angle is (moving) into a notch in the Yagi vertical pattern. Also note that NY4A carries the best signal for most of the 24 hours. This is an evaluation of the NY4A 40 EU quad vs known excellent installations that is hard to argue with."

Word to the Wise

Tag - no, not "you're it!" but the Cabrillo data element. When you see "Cabrillo tag", the reference is to the line of information beginning with a word or words followed by a colon (:) and then some alphanumeric characters. For example, the tag containing your power level is "CATEGORY-POWER:". The "tag value" is whatever information follows the colon until the end of the line marked by a carriage return and line feed character (CR/LF). Continuing the example, there are three recognized (legal) tag values for power; QRP, LOW, and HIGH.

Operating Tip

Work a contest one month before the real contest. The Sun rotates once every 27 days, so work a contest the month before the one you really want to concentrate on to experience the propagation you will have later. (From K9JY's "30 Days - 30 Ham Radio Contesting Tips" website <http://k9jy.com/blog/2007/10/10/30-days-30-ham-radio-contesting-tips>)

Provisional Results of the SARL HF Digital Contest

The Contest Committee received 9 logs for the SARL HF Digital Contest held on Sunday 18 August 2013. The results are as follows:

1st Bernie van der Walt, ZS4TX, 150 points
2nd Jan Botha, ZS4JAN, 101 points

3rd Nico Oelofse, 88 points
4th Lucas Holtzhausen, ZS6LH, 81 points
5th Pravin Kumar, ZS5LT, 80 points
6th Theunis Potgieter, ZS3EC, 68 points
7th Theo Bresler, ZS6TVB, 56 points
8th Dirk Els, ZS6AKU, 51 points

(Continued on page 3)

(Continued from page 2)

9th Eddie Leighton, ZS6BNE, 25 points

Best score on a Single band

20 metres

1st Bernie van der Walt, ZS4TX, 118 points

40 metres

1st Jan Botha, ZS4JAN, 69 points

2nd Pravin Kumar, ZS5LT, and Theo Bresler, ZS6TVB, 56 points

80 metres

1st Lucas Holtzhausen, ZS6LH, 37 points

Club Contest

1st Bloemfontein ARC, 238 points

2nd Rustenburg ARC, 81 points

3rd Highway ARC, 80 points

4th PEARS, 68 points

5th Lichtenburg ARC, 25 points

Final Results of the 2013 SARL HF Phone Contest

In his mad rush to get the results out, he forgot one log! The Contest Committee received 26 logs, including 1 check log, for the SARL HF Phone Contest held on 4 August 2013.

Single Operator

1st Jan Botha, 186 points

2nd Lucas Holthauzen, 155 points

3rd Christo van Rensburg, ZS3R, 132 points

4th Vidi la Grange, ZS1EL, 92 points

5th Brendon Muller, ZS4BM, and Theunis Potgieter, ZS2EC, 88 points

7th Ken Gurr, ZS6KN, 69 points

8th Dirk Els, ZS6AKU, and Theo Bresler, ZS6TVB, 67 points

10th Pam Momberg, ZS6APT, 64 points

11th Karel Bezuidenhout, ZR6K, 61 points

12th Roy Newton, ZS6XN, 60 points

13th Robert Bareham, ZS1SA, 58 points

14th Heather Holland, ZS6YE, and Wynand Wolmarans, 51 points

16th Garth Wheeler, ZS6GMW, 49 points

17th Danie Putter, ZS6ZD, 38 points

18th Juan Coetzer, ZS6IF, 37 points

19th Bruce Rown, ZS6BK, 36 points

20th Geoff Levey, ZS6GRL, 31 points

21st Gert du Plessis, ZR6GRT, 28 points

22nd Leon Uys, ZS6ALU, 20 points

23rd Tomothy Bullock, ZS6IM, 11 points

1st Bloemfontein ARC, 171 points

2nd Kempeton Park ARTS, 135 points

Check log

Johan Roos, ZS4KB

Best score on a single band

20 m

1st Wynand Wolmarans, V51WW, 51 points

40 m

1st Jan Botha, ZS4JAN, 114 points

2nd Bloemfontein ARC, 113 points

3rd Christo van Rensburg, ZS3R, 92 points

80 m

1st Lucas Holthauzen, ZS6LH, 47 points

2nd Jan Botha, ZS4JAN, 45 points

3rd Kempton Park ARTS, 37 points

Club Contest

1st Bloemfontein ARC, ZS4BFN, 256 points

2nd Kempton Park ARTS, 173 points

3rd Rustenburg ARC, 155 points

4th Overberg ARC, 92 points

5th Port Elizabeth ARS, 88 points

6th Centurion ARC, 64 points

7th Soutpansberg ARC, 61 points

8th Pretoria ARC, 60 points

9th West Rand ARC, 59 points

Multi-operator

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 26 August to 2 September 2013

QRP Fox Hunt

01:00—02:30 UTC 30 August

Mode: CW

Bands: 20 m Only

Classes: Single Op (Fox/Hound)

Max power: 5 watts

Exchange: RST and state, province or country and

(Continued on page 4)



HF Happenings

(Continued from page 3)

name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 02:30 UTC 31 August 2013

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at: http://www.grpfoxhunt.org/summer_rules.htm

NCCC Sprint Ladder

02:30 - 03:00 UTC 30 August

Mode: CW

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 1 September 2013

E-mail logs to: (none)

Post log summary at: <http://www.3830scores.com>

Mail logs to: (none)

Find rules at: <http://www.ncccsprint.com/rules.html>

Feld Hell Sprint

00:00 - 23:59 UTC 31 August

Mode: Feld Hell

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (none)

Max power: Standard: 100 watts; QRP: 5 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: (see rules)

Bonus Points: (see rules)

Multipliers: (see rules)

Score Calculation: (see rules)

Submit logs by: 7 September 2013

E-mail logs to: kj8o@wowway.com

Mail logs to: (none)

Find rules at: <https://sites.google.com/site/feldhellclub/Home/contests/sprint-rules>

CWOpen CW Open

00:00 - 03:59 UTC; 12:00 - 15:59 UTC and 20:00 - 23:59 UTC 31 August

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: Serial no and name

Work stations: Once per band per time segment

QSO Points: 1 point per QSO

Multipliers: Each call once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 00:59 UTC 20 September 2013

E-mail logs to: (none)

Upload log at: <http://www.b4h.net/cwops/>

Mail logs to: (none)

Find rules at: <http://www.cwops.org/cwopen.html>

Colorado QSO Party

12:00 UTC 31 August to 04:00 UTC 1 September

Mode: CW, Phone, Digital

Bands: 160, 80, 40, 20, 15, 10, VHF/UHF

Classes: Single Op - CW, phone, digital or mixed - QRP, low or high; Multi-Single - CW, phone, digital or mixed - QRP, low or high; Multi-Multi - CW, phone, digital or mixed - QRP, low or high; Mobile Single Op - CW, phone, digital or mixed - QRP or low; Mobile Multi-Op - CW, phone, digital or mixed - QRP or low; Portable Single Op - CW, phone, digital or mixed - QRP or low; Portable Multi-Op - CW, phone, digital or mixed - QRP or low; School- CW, phone, digital or mixed - QRP, low or high

Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts

Exchange: CO: Name and county; W/VE: Name and (state/province); DX: Name and DXCC prefix

Work stations: Once per band per mode per CO county

QSO Points: 1 point per phone QSO; 2 points per CW/digital QSO; Double QSO points for countries outside of W/VE

Multipliers: CO Stations: Each CO county, state, VE province, DXCC country, maritime region once per mode; Non-CO: Each county once per mode

Power: High: x 1, Low: x 2, QRP: x 3

Score Calculation: (see rules)

Submit logs by: 1 October 2013

E-mail logs to: cogplogs@ppraa.org

Mail logs to: Colorado QSO Party, PO Box 16521, Colorado Springs, CO 80935-6521, USA

(Continued on page 5)

(Continued from page 4)

Find rules at: <http://ppraa.org/downloads/coqp/2013%20COQP%20Rules%2013-1.pdf>

Tennessee QSO Party

18:00 UTC 1 September to 03:00 UTC 2 September

Mode: CW, Phone, Digital

Bands: 160, 80, 40, 20, 15, 10, VHF/UHF

Classes: Fixed Single Op or Multi-Op- CW, phone, digital or mixed - QRP, low or high; Mobile Single Op or Multi-Op- CW, phone, digital or mixed - QRP, low or high

Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts

Exchange: TN: RS(T) and county; non-TN: RS(T) and state, province or country

Work stations: Once per band per mode

QSO Points: 2 points per phone QSO; 3 points per CW QSO; 3 points per digital QSO (see rules for bonus QSO points)

Multipliers: TN: TN counties, states, provinces, DXCC countries once per band; non-TN: TN counties once per band

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 2 October 2013

E-mail logs to: logs@tnqp.org

Mail logs to: Tennessee QSO Party, c/o Doug Smith, W9WI, 1389 Old Clarksville Pike, Pleasant View, TN

37146-8098, USA

Find rules at: <http://tnqsoparty.wordpress.com/rules/>

MI QRP Labour Day CW Sprint

23:00 UTC 2 September to 03:00 UTC 3 September

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: less 250 mW; 250 mW - 1 W; 1 - 5 W; greater 5W

Exchange: RST, state, province or country and member no or power output

Work stations: Once per band

QSO Points: 5 points per QSO with members; 2 points per QSO with non-member W/VE stations; 4 points per QSO with non-member DX stations

Multipliers: Each state, province or country, once per band; Bonus: multiply total points by 1.25 if xmtr or receiver is homebrew; Bonus: multiply total points by 1.5 if both xmtr and receiver are homebrew

Score Calculation: Total score = bonus multiplier x total QSO points x total mults

Submit logs by: 3 October 2013

E-mail logs to: n8xx@arrl.org

Mail logs to: Hank Greeb, N8XX, 5727 11 Mile Rd NE, Rockford, MI 49341, USA

Find rules at: <http://www.qsl.net/miqrpcclub/contest.html>

Next weeks contests

MI QRP Labour Day CW Sprint 23:00 UTC 2 September to 03:00 UTC 3 September

ARS Spartan Sprint 01:00 - 03:00 UTC 3 September

NRAU 10 m Activity Contest 17:00 - 18:00 UTC (CW); 18:00 - 19:00 UTC (SSB), 19:00 - 20:00 UTC (FM) and 20:00 - 21:00 UTC (Dig) 5 September

QRP Fox Hunt 01:00 UTC-02:30 UTC 6 September

NCCC RTTY Sprint Ladder 01:30 - 02:00Z 6 September

PODXS 070 Club Jay Hudak Memorial 80 m Sprint 20:00 local 6 September to 02:00 local 7 September

63ZQS Memorial Straight Key Contest 23:00 UTC 6 September to 23:00 UTC 8 September

All Asian DX Contest, Phone 00:00 UTC 7 September to 24:00 UTC 8 September

Russian RTTY WW Contest 00:00 - 24:00 UTC 7 September

Wake-Up! QRP Sprint 06:00 - 06:29 UTC; 06:30 - 06:59 UTC; 07:00 - 07:29 UTC and 07:30 - 08:00 UTC 7 September

SKCC Weekend Sprintathon, 12:00 UTC 7 September to 24:00 UTC 8 September

AGCW Straight Key Party, 13:00 - 16:00 UTC 7 September

RSGB SSB Field Day, 13:00 UTC 7 September to 13:00 UTC 8 September

IARU Region 1 Field Day, SSB 13:00 UTC 7 September to 12:59 UTC 8 September

Ohio State Parks on the Air, 16:00 - 24:00 UTC 7 September

QCWA Fall QSO Party, 18:00 UTC 7 September to 18:00 UTC 8 September

North American CW Sprint, 00:00 - 04:00 UTC 8 September

DARC 10-Meter Digital Contest, 11:00 - 17:00 UTC 8 September



African DX

Morocco, 5C0. The "Council of Europe Radio Amateur Club" (CERAC - TP2CE) was expected to team up with the "Association Royale des Radio Amateur du Maroc" (ARRAM) to activate the special call sign 5COCE between 20 and 21 August, but the operation was cancelled by the ARRAM's President 16 hours before the CERAC team was to leave for Morocco. Francis, F6FQK, one of CERAC's Administrative Personal, informs OPDX that they received the Moroccan licence many months ago and the Radio Amateurs from Morocco have been preparing for this operation since last year with a lot of enthusiasm. There has been no direct details and/or motive received on behalf of the ARRAM's President about any problem.

Francis believes that this incident is very damaging to the amateur radio community. Also, the members of the CERAC team, who were expected to participate in the event, personally funded this expedition (train, fly etc...), and now it's too late to recover their paid expenses.

African Tour. Nick, G3RWF, has announced that he will once again be active as 5X1NH from the University of the Mountains of the Moon (MMU) in Fort Portal, Western Uganda and (occasionally) the capital, Kampala, between 24 September and 16 November. He is expected to join/meet with Alan, G3XAQ/5X1XA, later and both operators will travel to Rwanda to be active as 9X0NH between 19 and 29 November. The duo plan to participate in the CQ WW DX CW Contest (23 and 24 November) from Rwanda. QSL 5X1NH and 9X0NH via G3RWF. QSL 5X1XA via G3SWH.

African Islands

Cape Verde, D4. Barry, MODGQ, will once again be active as D44TXP from Sal Island (AF-086) between 27 August and 11 September. Activity will be on 40 and 20 metres CW only. QSL via MOURX, direct, by the Bureau or via the OQRS see <http://www.mOurx.com/oqrs>.



Mauritius, 3B8. A few sources report that Darren, G0TSM, will be active as 3B8/G0TSM between 18 and 28 September. Darren will be there on holiday, so activity will be limited to 2 - 3 hours per day on 40 - 6 metres using CW, SSB and RTTY. His equipment is an IC-7000 with wire antennas for 40 - 10 m and a 2 element Quad on 6 m. Participation in the CQ WW DX RTTY Contest (28 and 29 September) will be very limited due to his return flight time. Darren states [edited], "Please do not send me any paper QSL cards, either direct or via the Bureau. Please use the OQRS feature on ClubLog to request Bureau or direct cards. Also, requests for Bureau QSL cards can be made via E-mail. The log will be uploaded to LoTW and ClubLog during the holiday."

Ascension Island, ZD8 Operators Oliver, W6NV, Olof, G0CKV and Jorma, OK2KI will be active as ZD8W, ZD8M and ZD8X, respectively, from Ascension Island (AF-003) between 19 and 25 November. Activity will include the CQ WW DX CW Contest (November 24-25th) with each operator as a Single-Op/Single-Band entry: ZD8M on 40 m, ZD8W on 15 m and ZD8X on 10 m. Look for activity outside of the contest on the HF bands and 6 metres. QSL via their home call signs.

Time to Monitor VKORTM Beacon on 50,300 MHz in Antarctica

Now is the time to start monitoring the VKORTM beacon on 50,300 MHz CW at Mawson Research Station on Mac Robertson Island, Antarctica, on a beam direction of 155 degrees. It was erected by Craig Hayhow, VK0JJJ, and will operate until January 2014 running 280 Watts EIRP into two stacked M2 horizontal loop antennas. There are several propagation modes that might make it possible to cover the 4 430 km to South Africa. They are: Tropo Ducting during the summer months, Sporadic-E in December and January, a possible brief period of F2 propagation during the peak of the Solar Cycle in mid September/October 2013 as well as Meteor Scatter enhanced Aurora. Craig's station is transmitting 400 Watts on 50 MHz into a five element Yagi and he will be looking for DX contacts on the "Magic Band."



Be surprised by the World of Amateur Radio

Tony's 10 m Report

A

very varied week with a really excellent weekend which was not apparent from here in the UK. Plenty of DX about.

YW5X (DX Expedicion Isla la Orchila, Venezuela) did well on Thursday to Saturday but failed to turn up on Sunday. Their QRZ.com page is worth a visit.

Tony, G4CJC. I worked SP8UFR, I3PVB both on PSK31 and LA7EU on SSB. I could not get on 10 at the weekend.

Arie, 9W2VVH got back into the throes of things on 10 m. *"Hi Tony. Last week-end, I managed to participate in 3 contests. In YO HF DX Contest, wkd 14 contest stns - C4I, EA3FRI, F5LIW, PI4DX, GW4BLE, IZ3SQW, IV3UHL, IK4DCX, EA7KB, LX7I, G4RFR, YO3CZW, SP1RKT & YO5KAD. In CVA (Brazil) Contest just got 2 contest stns - PT6B & PY8WW. In Hawaii QSO Party also wkd 2 contest stns - KH6BB & KH6LC. Beside contest stns, last week-end wkd as normal QSO with SV1HFW/8, CT2JYX & JA6IDJ."* Good stuff and I see you worked Steve GW4BLE. It is a while since I saw his call appear.

Steve, M0STC, heard Z81B 5/7 and ZS6DN (beacon) 5/5 on Saturday, worked D2QR 3/3 (PSK62) then later D2QR 5/9 (PSK31) PT9IR 5/9 (PSK125) and ES3BR 5/5 (PSK31) on Sunday with PY2SRL 4/4 (PSK31) on Monday.

Ian, G0UWK, is back. He worked TZ6BB, PY2EX, PJ2/IW1FC and LU1JHD on Sunday. *"Hi Tony, just got QRV again on 10 m after an 18 month break. Sunday I put up a 4-element monoband yagi and dusted off the Acom 1000. Good signals on the transequatorial path to Africa and South America with PJ2 thrown in for good measure. Looking forward to the autumnal equinox and hopefully some good F2 into Asia and the pacific regions. Watch this space!"* Well send us some pics and details of the antenna then, so we can all drool over it.

Last week's photo of the Eiffel tower! Vincent, ZS6BTY was spot on! It is not the one in Paris and no there is no tower in Parys. It is in Bloemfontein, in the Hamilton industrial area on Church street.

Where is this Stuart Tank standing? It is also known as the Honey Tank, because the drivers said "She is a honey to drive!" A hint - it is in ZS5, the M5 is just behind the wall and the M7 highway is about 300 metres away.



History This Week for the week starting 26 August

- 1831 - Michael Faraday demonstrated the first electrical transformer
- 1843 - first practical typewriter was patented
- 1884 - First known photograph of a tornado is made near Howard, SD
- 1885 - Gottlieb Daimler receives a German patent for a motorcycle
- 1887 - Thomas A Edison patents the Kinetoscope, (produces moving pictures)
- 1913 - Lt Peter Nestrov, of the Imperial Russian Air Service, performs a loop in a monoplane at Kiev, first aerobatic manoeuvre in an airplane
- 1939 - Erich Warsitz makes the first jet-propelled flight (in a Heinkel He-178)
- 1939 - WW II starts, Germany invades Poland, takes Danzig
- 1979 - First recorded occurrence of a comet hitting the sun (energy = 1 mil hydrogen bombs)

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newslite, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News and Southgate ARC News

HF Happenings

HF Happenings-subscribe@yahooagroups.com